

FIG. 1

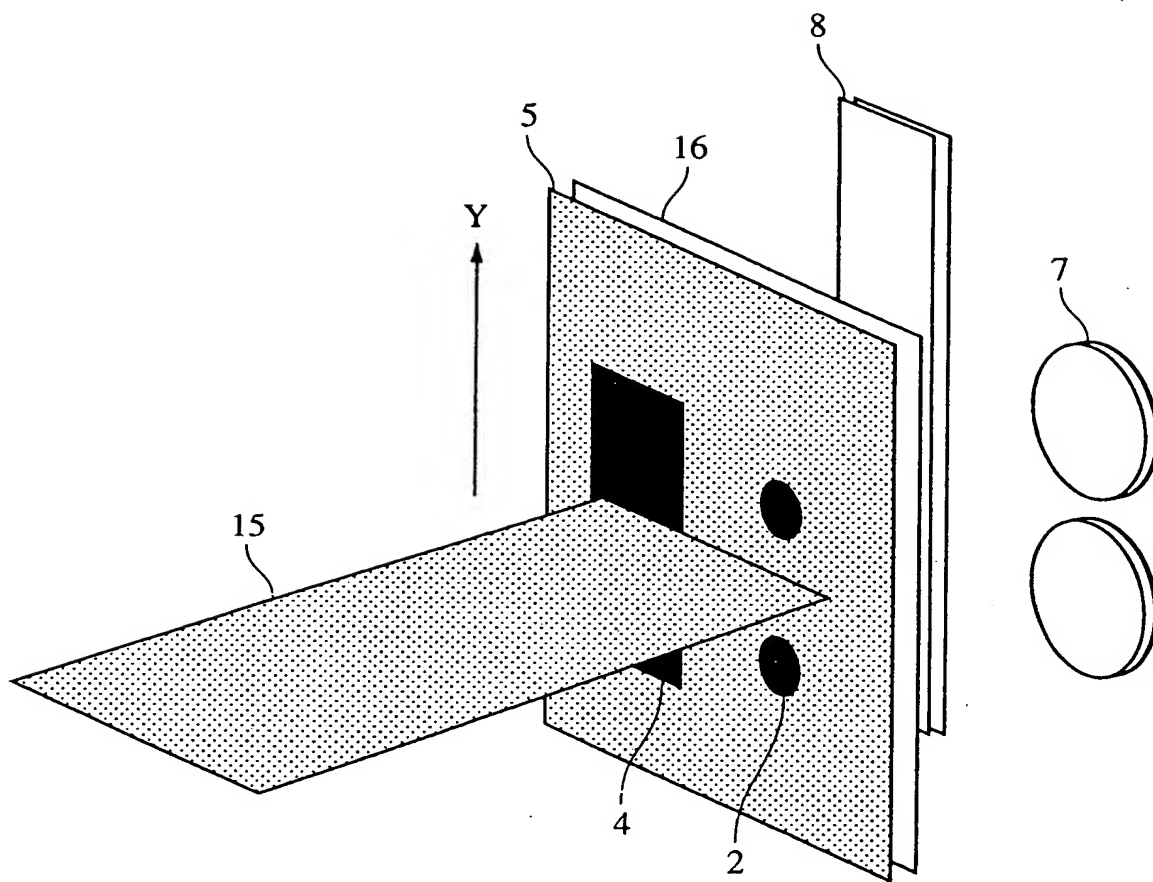
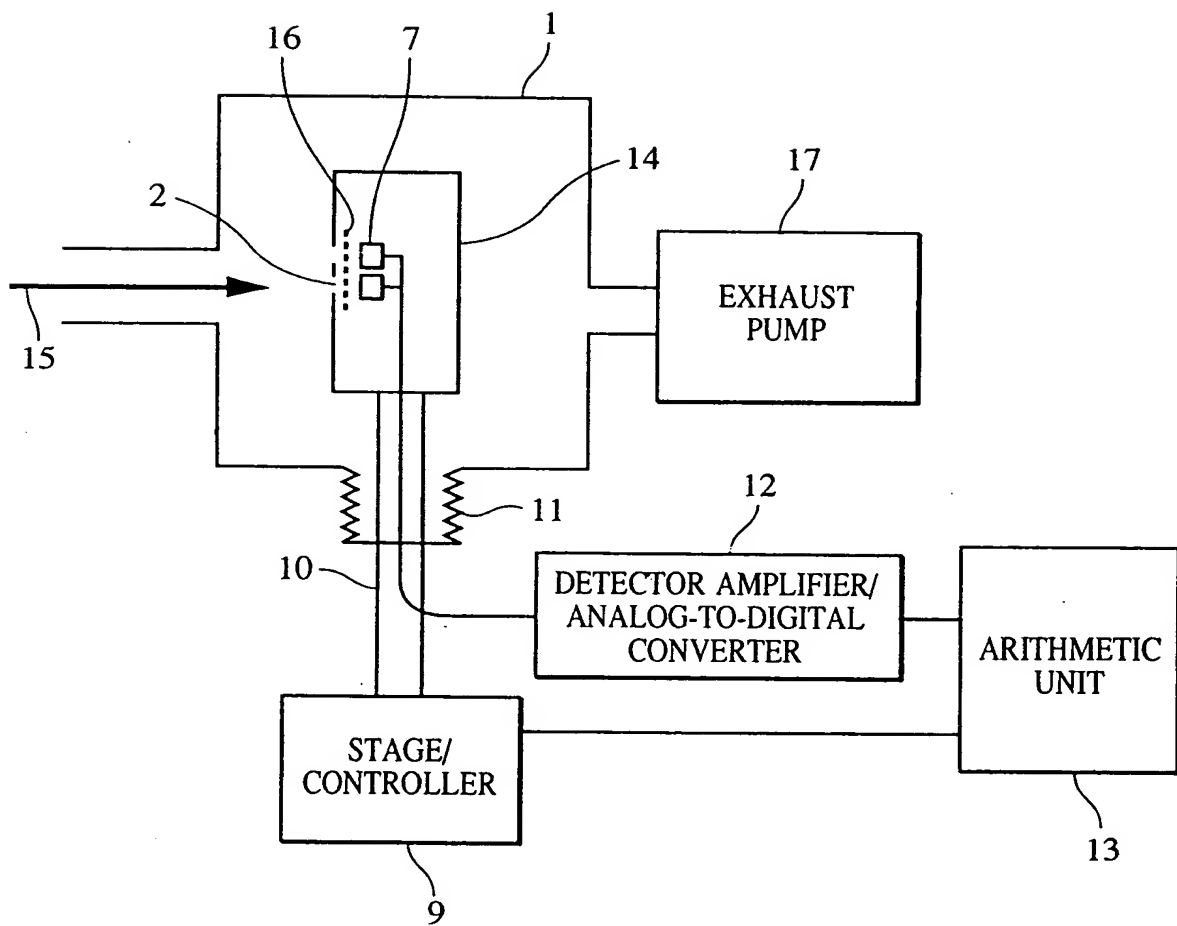


FIG. 2



The diagram illustrates the components and signal flow of a laser plasma ionization mass spectrometer (LPI-MS). The main chamber (1) contains a laser (29) and an ion source (18). A sample inlet (15) leads into the chamber. The chamber is connected to an exhaust pump (17). A detector (10) is positioned within the chamber, connected to a detector amplifier/analog-to-digital converter (12). The detector amplifier is also connected to an arithmetic unit (13). The arithmetic unit is connected to a stage/controller (9). The stage/controller is connected to a total intensity detector (19). The total intensity detector is also connected to the arithmetic unit (13).

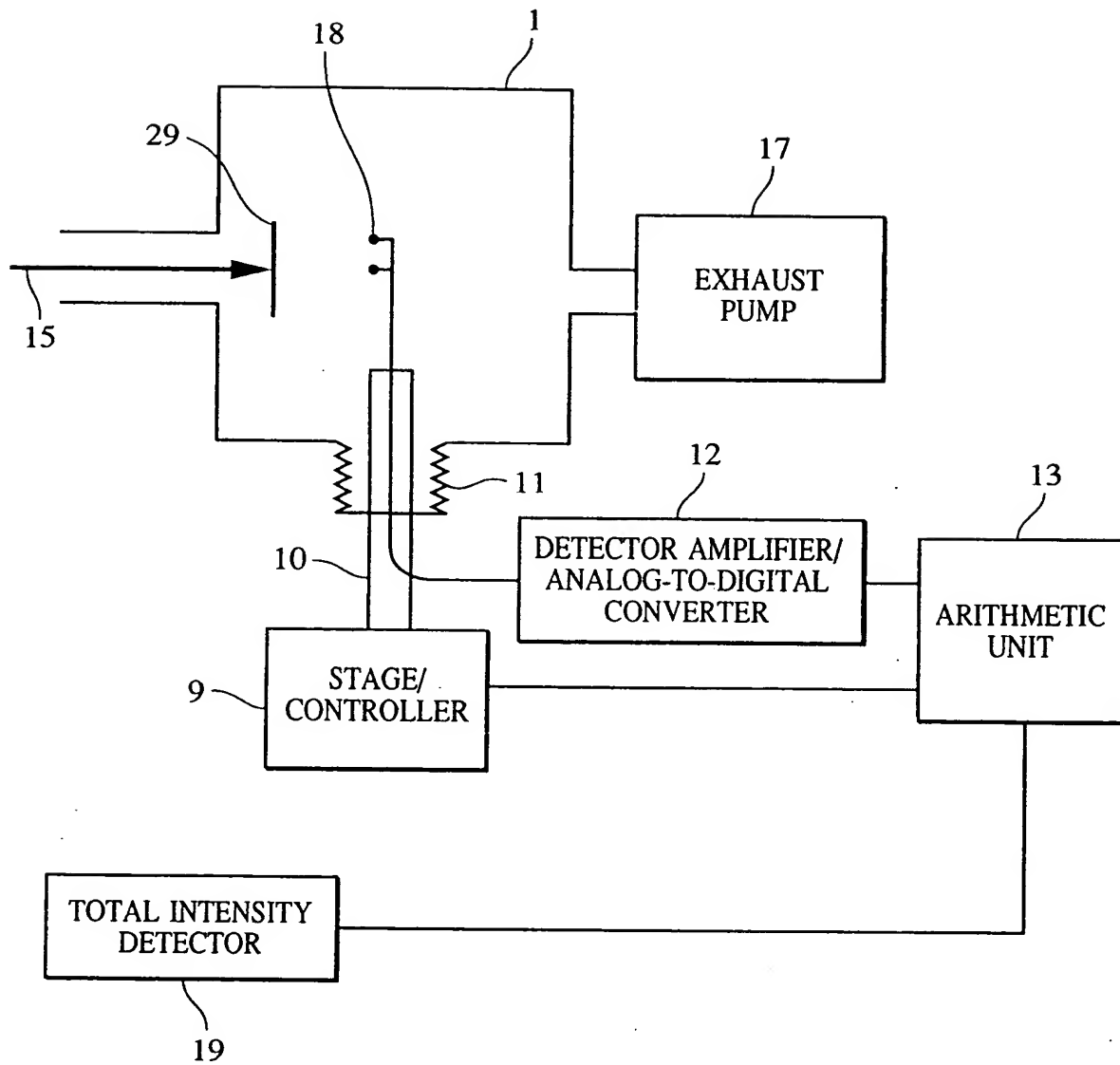


FIG. 4

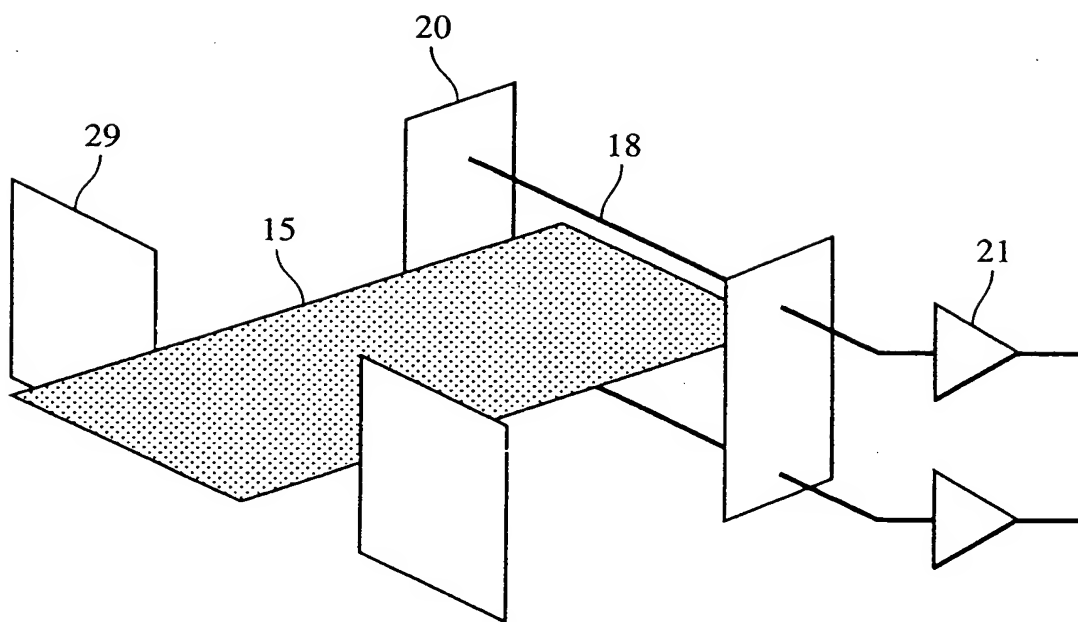


FIG. 5

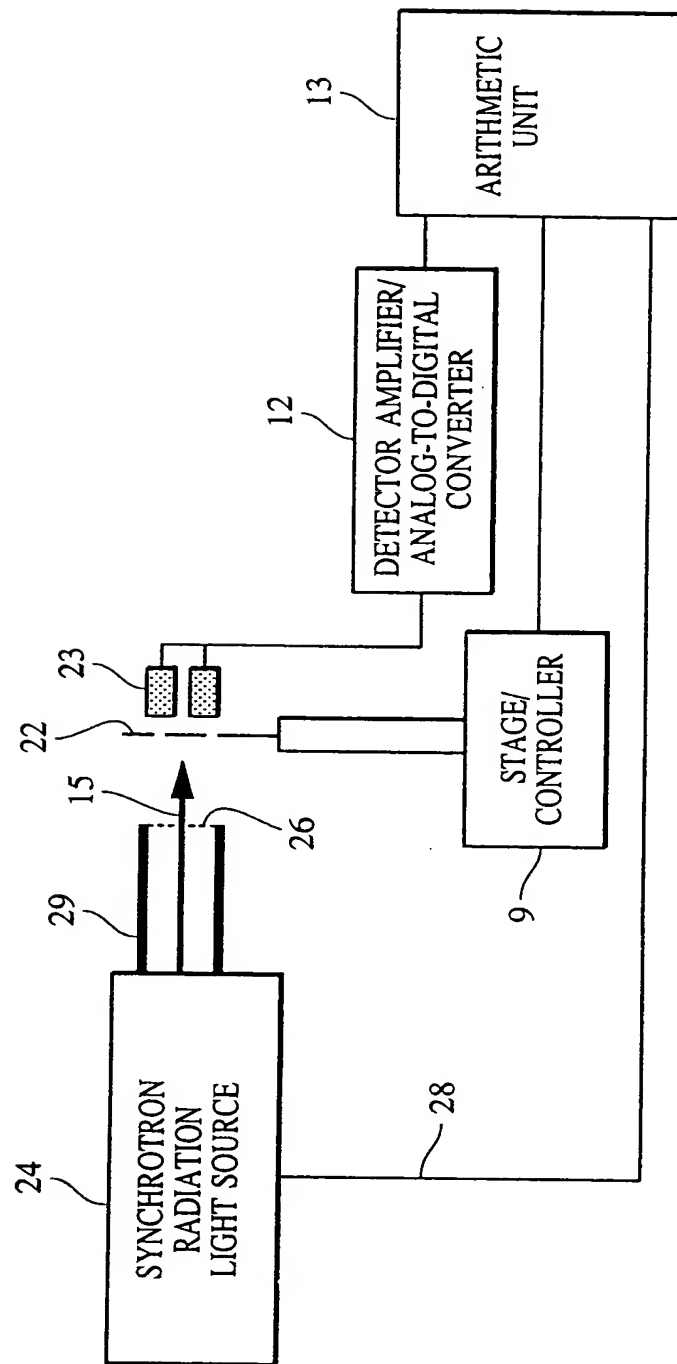


FIG. 6

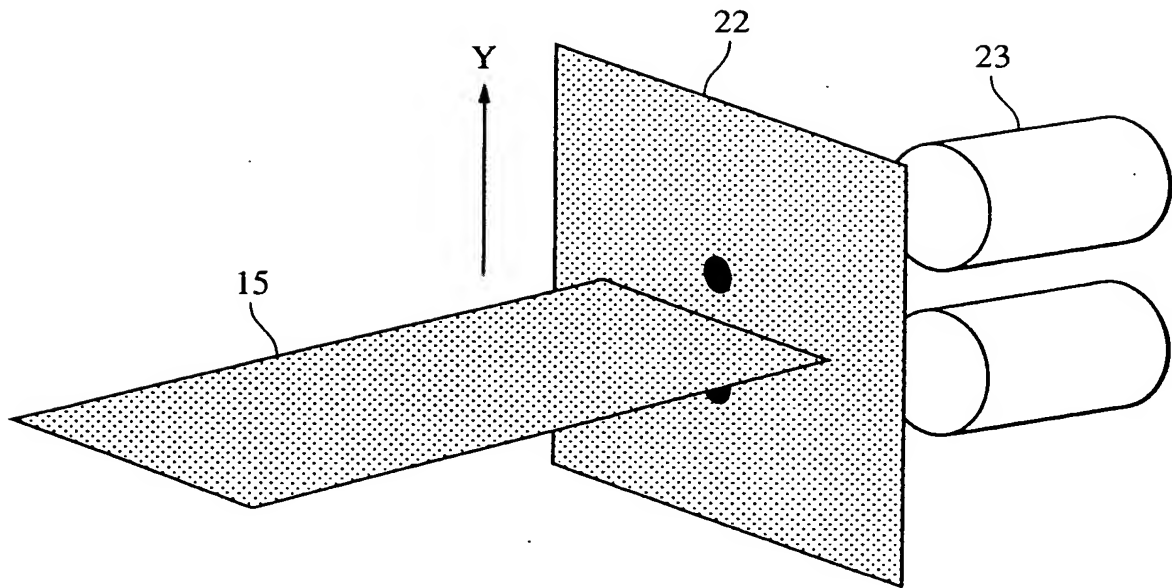


FIG. 7

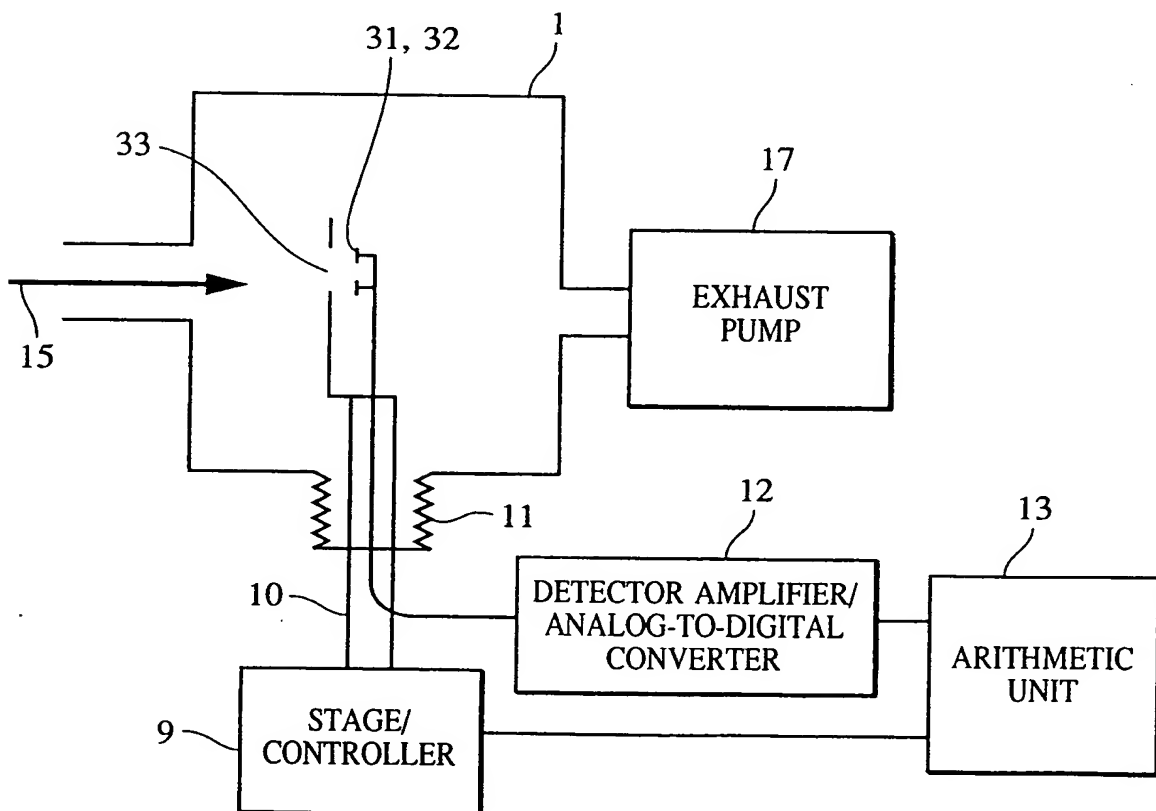


FIG. 8

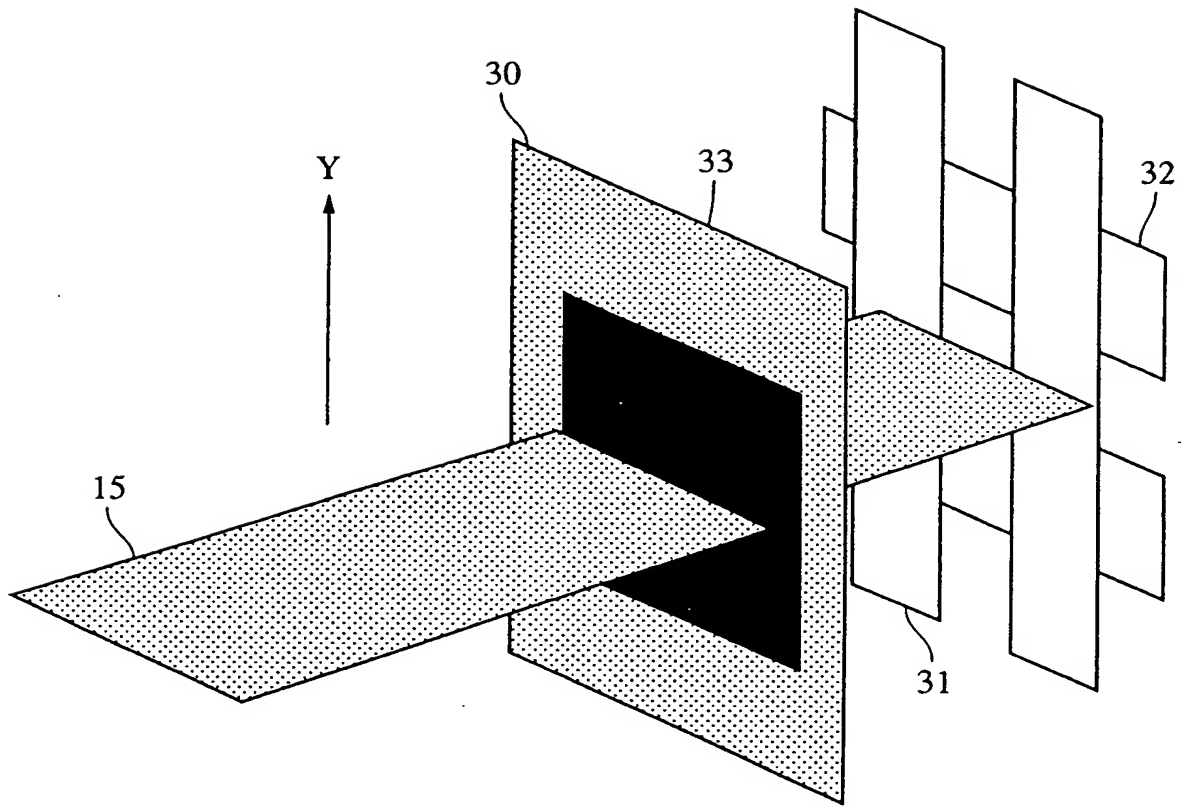


FIG. 9

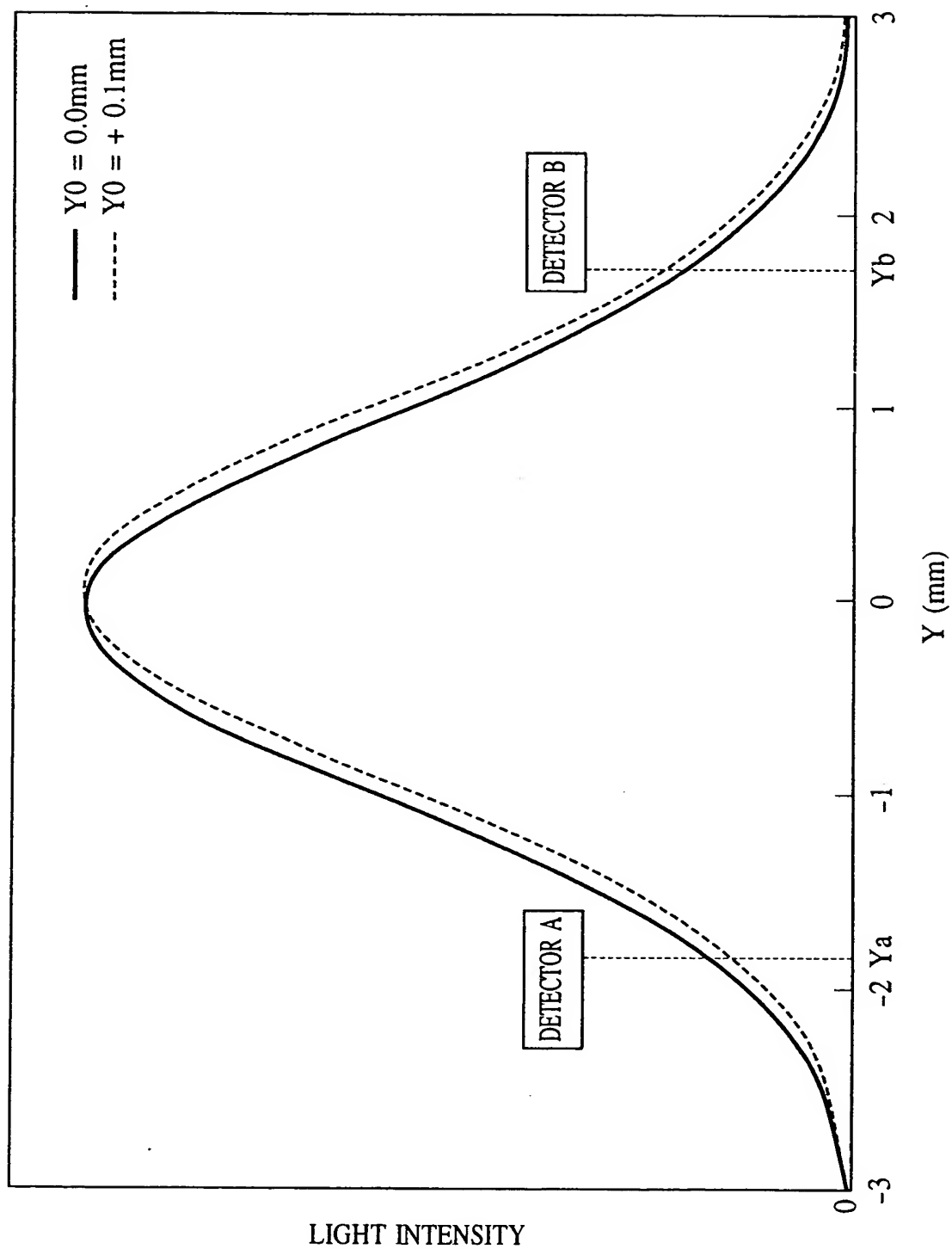


FIG. 10

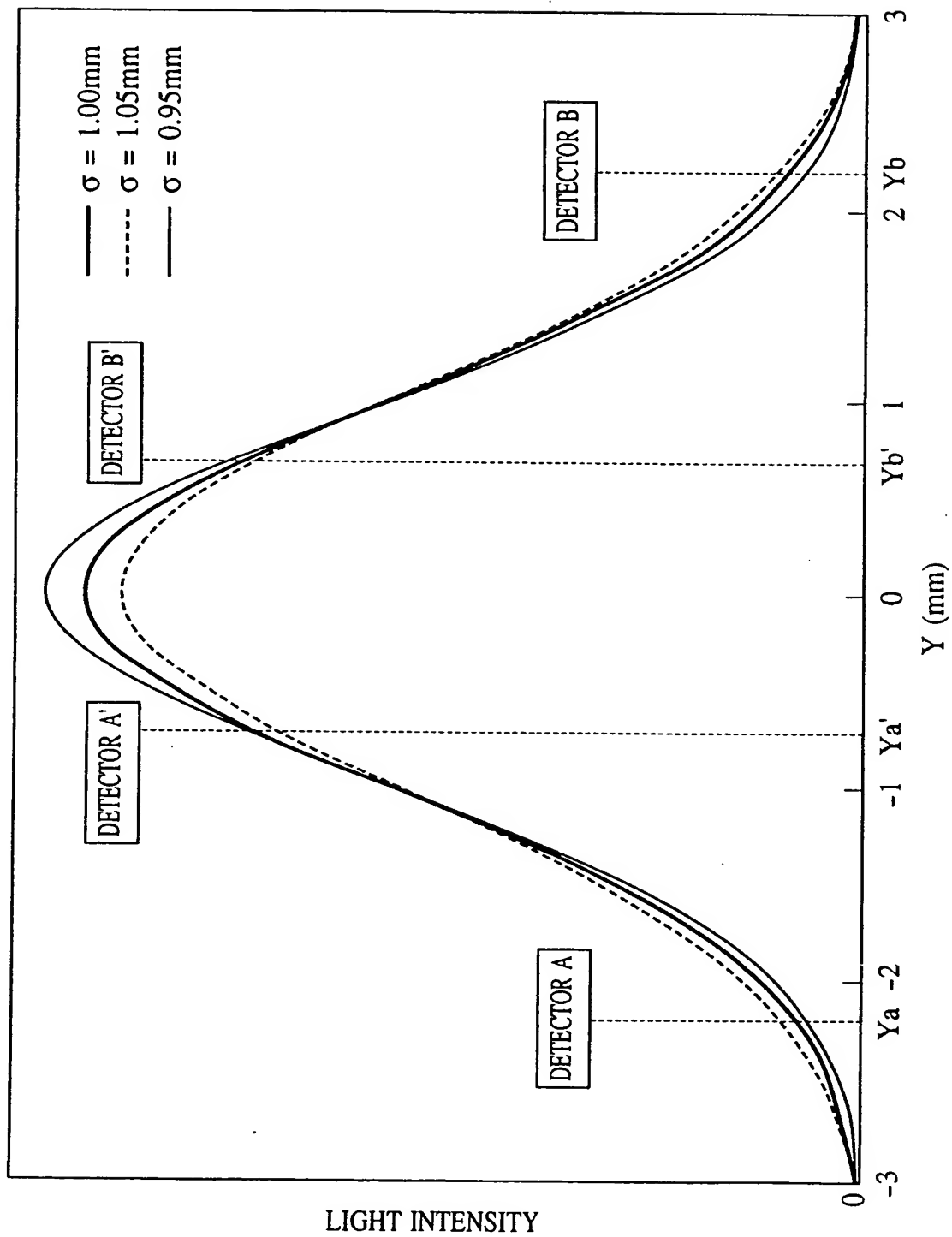


FIG. 11

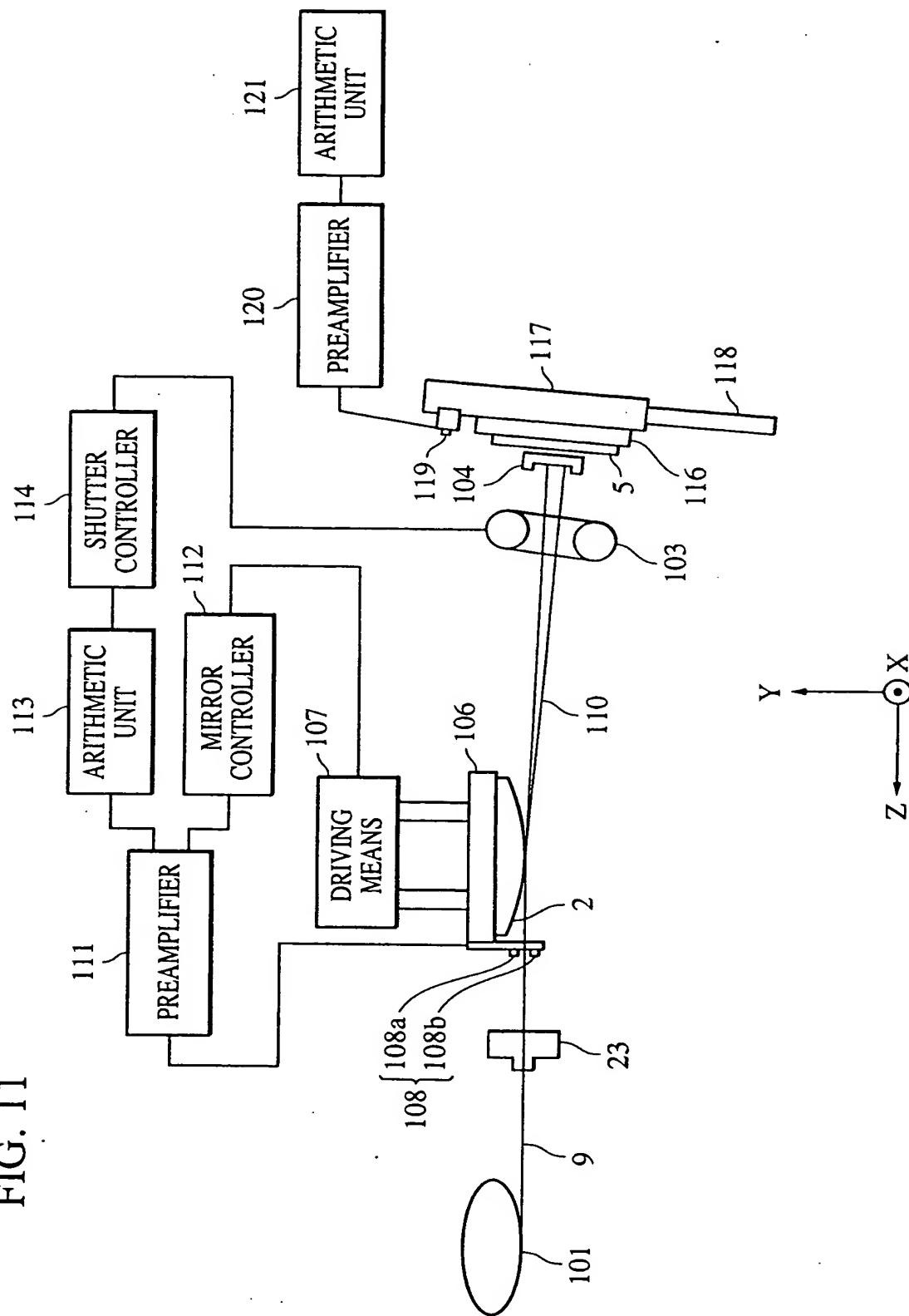


FIG. 12

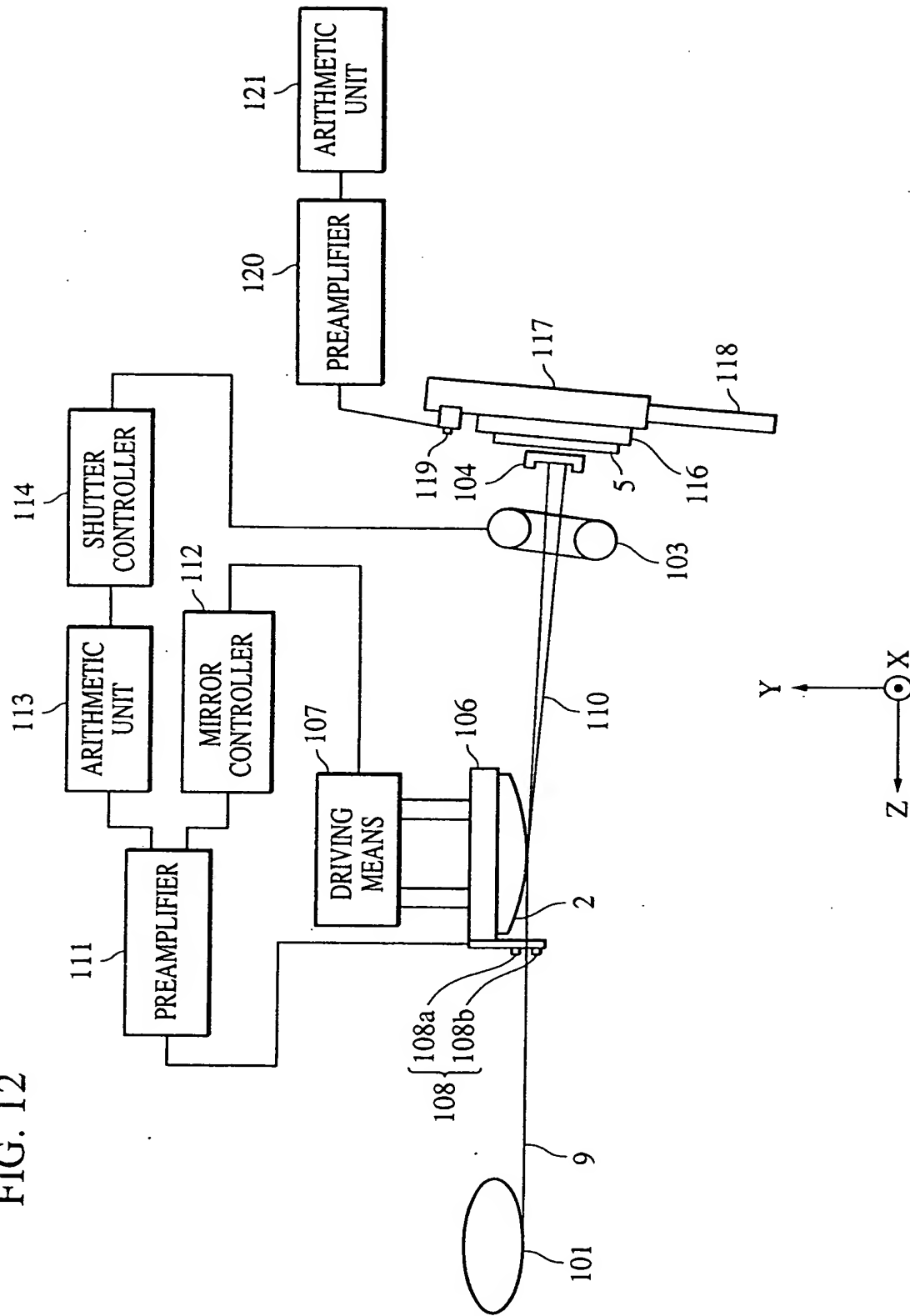


FIG. 13

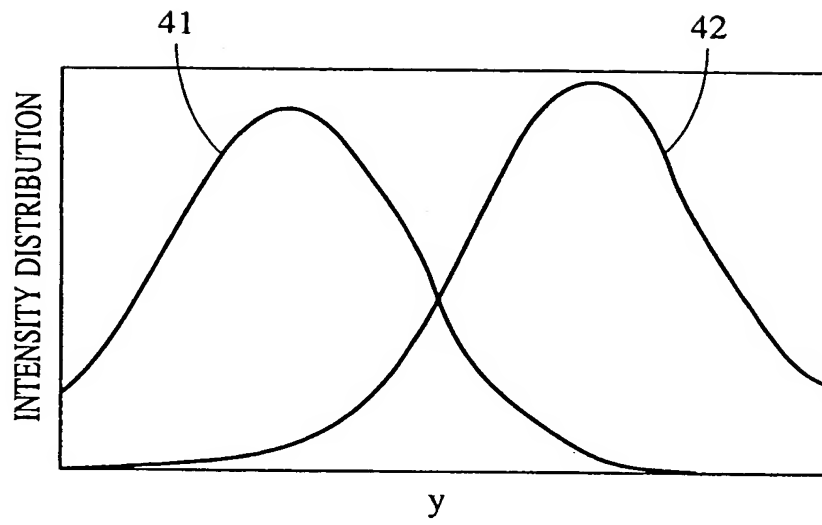


FIG. 14

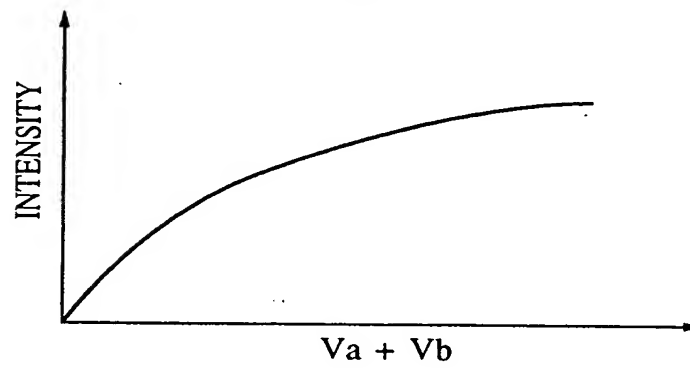


FIG. 15

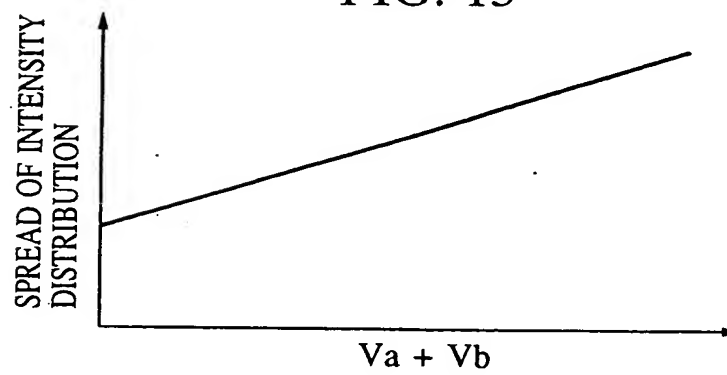


FIG. 16

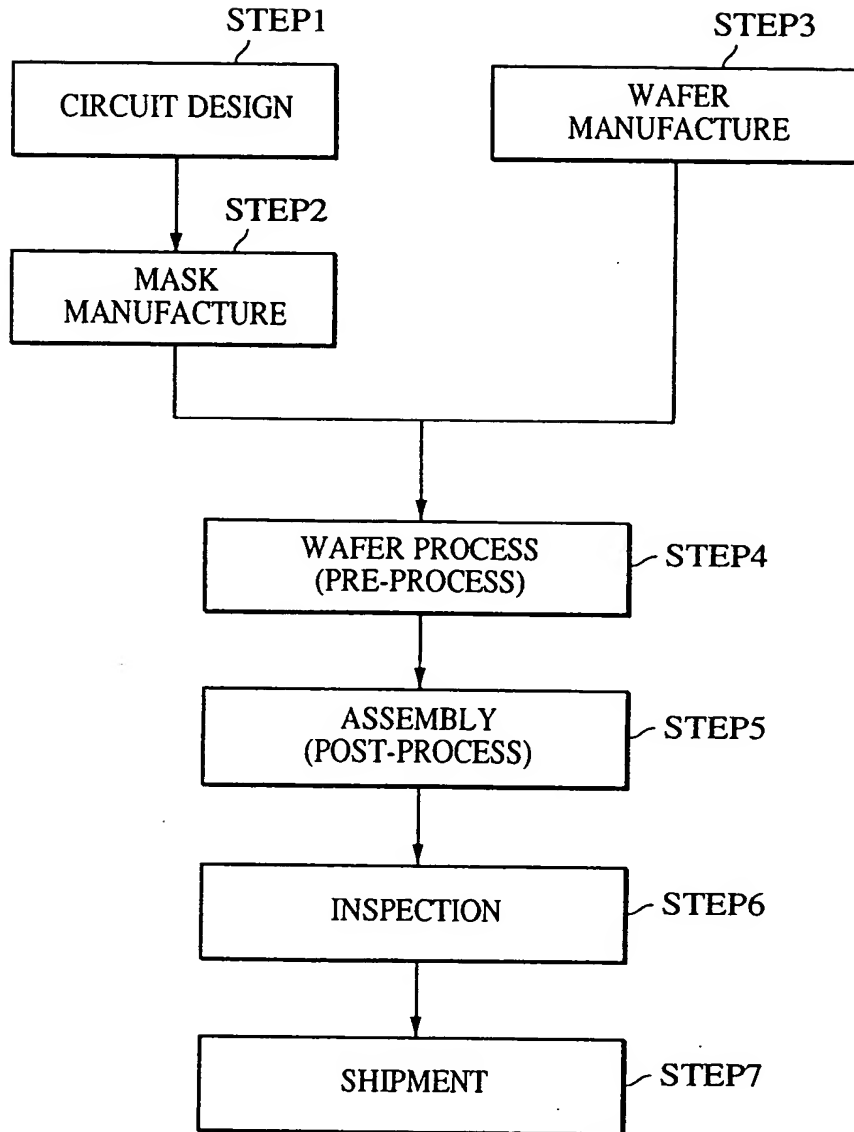


FIG. 17

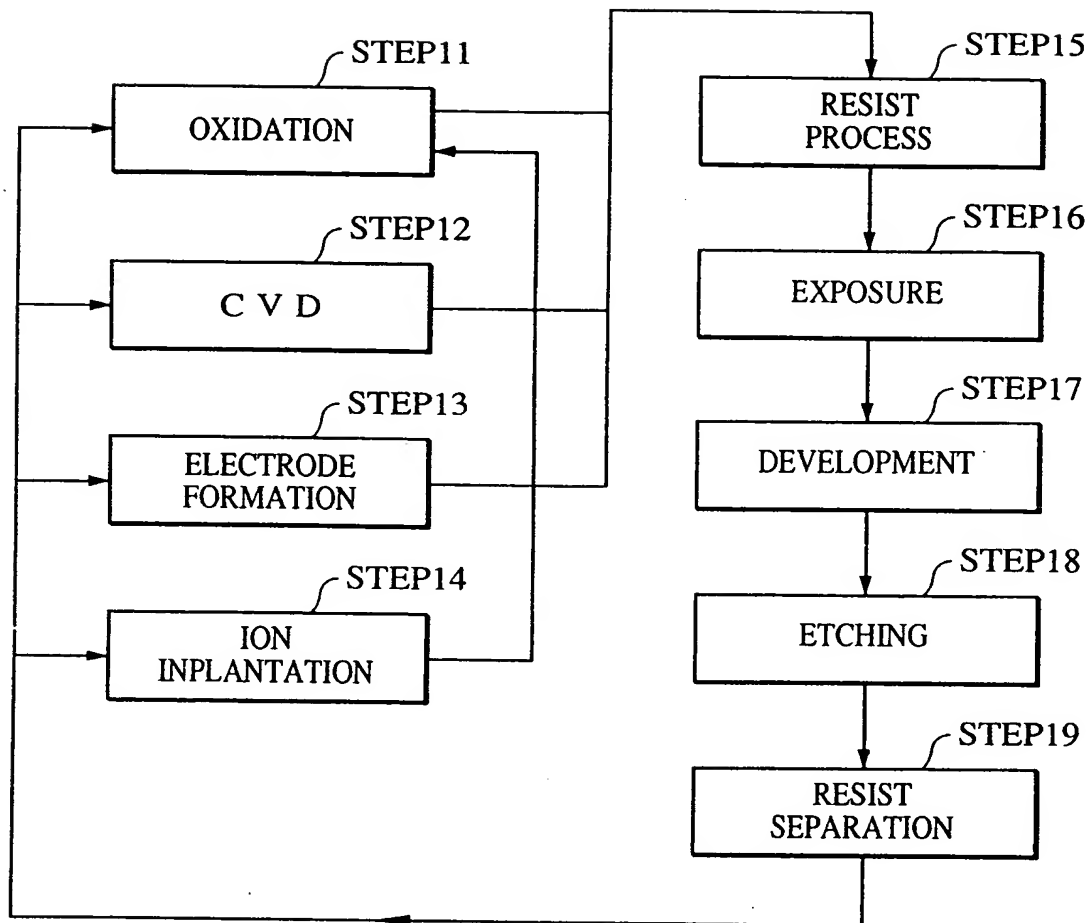


FIG. 18
PRIOR ART

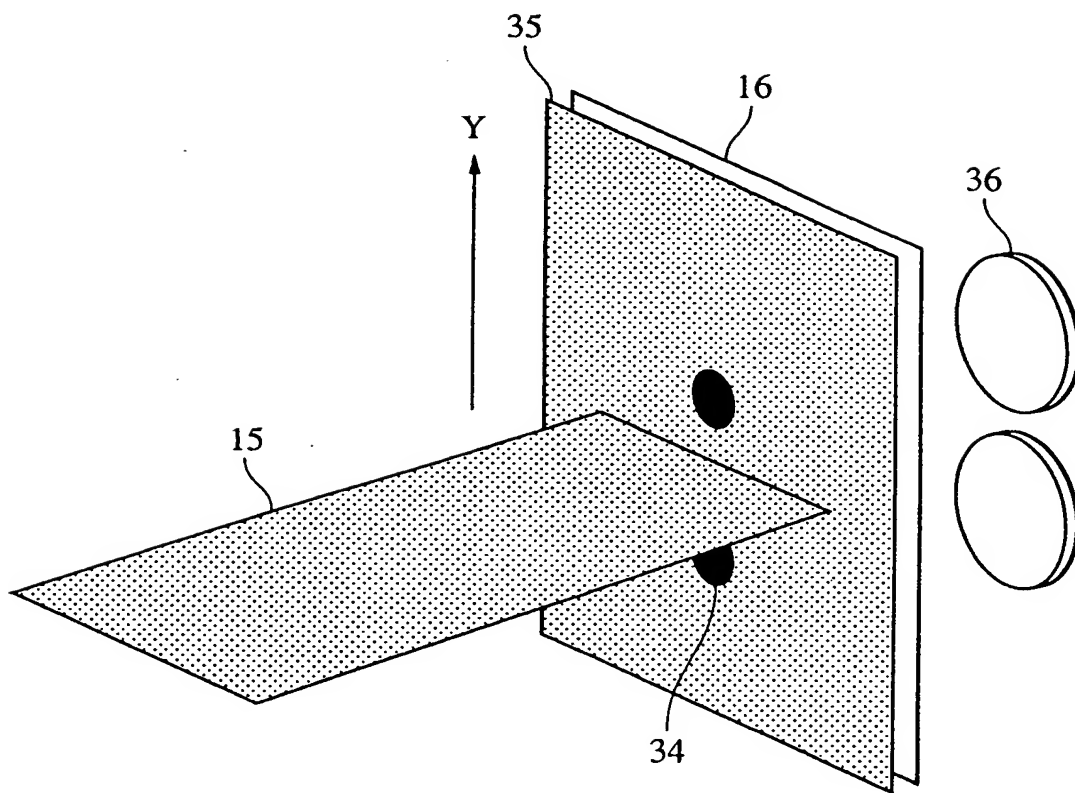


FIG. 19 PRIOR ART

